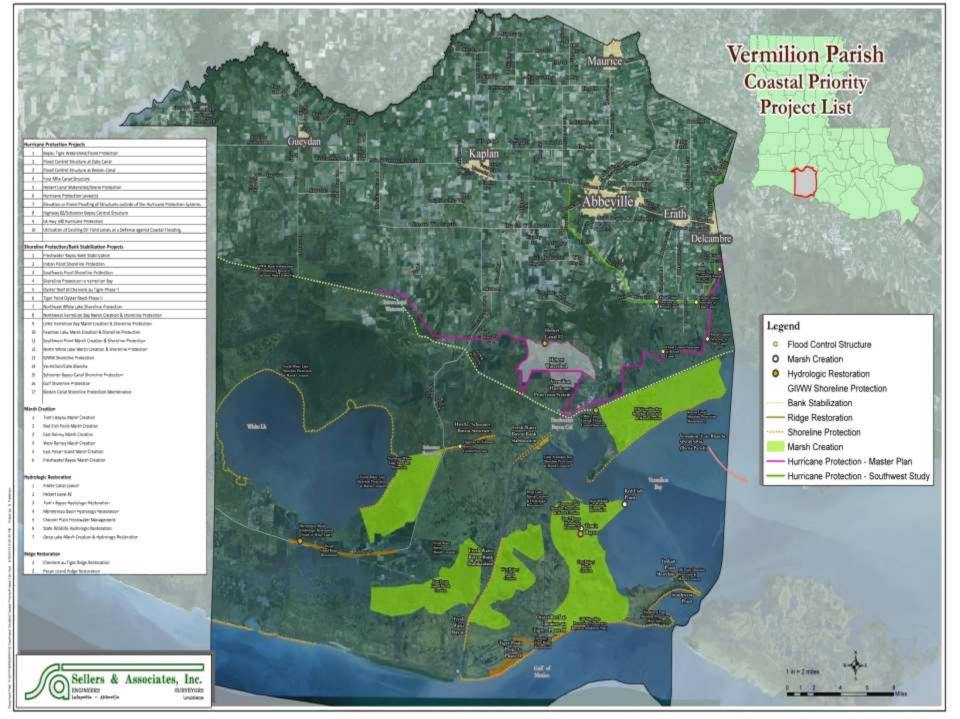
VERMILION PARISH COASTAL RESTORATION PROJECTS

www: vermilionparishpolicejury.com





Coastal Projects in Vermilion Parish Constructed over the last 26 years (CWPPRA, CIAP, State Surplus)

PPL	Number	Project Name	Project Types	Current Estimate	Acres Benefited
2	ME-04	Freshwater Bayou Wetland Protection	Hydrologic Restoration, Shoreline Protection	6,059,651.31	1593
5	ME-13	Freshwater Bayou Bank Stabilization	Shoreline Protection	8,913,366.06	511
7	ME-14	Pecan Island Terracing	Sediment and Nutrient Trapping	2,390,984.44	442
12	ME-22	South White Lake Shoreline Protection	Shoreline Protection	14,466,980.83	844
19	ME-31	Freshwater Bayou Marsh Creation	Marsh Creation (E&D cost only)	2,425,997.00	279
1	TV-03	Vermilion River Cutoff Bank Protection	Shoreline Protection	2,047,478.71	65
2	TV-09	Boston Canal/Vermilion Bay Bank Protection	Shoreline Protection, Vegetative Planting	1,043,748.21	378
5	TV-12	Little Vermilion Bay Sediment Trapping	Shoreline Protection, Sediment Trapping	886,029.62	441
6	TV-16	Cheniere Au Tigre Sediment Trapping Demo	Demonstration	624,999.42	0
8	TV-17	Lake Portage Land Bridge	Shoreline Protection	1,181,128.92	24
9	TV-18	Four Mile Canal Terracing and Sediment Trapping	Sediment and Nutrient Trapping	3,792,936.24	167
21	TV-63	Cole's Bayou Marsh Restoration	Hydrologic Restoration, Marsh Creation	26,631,225.00	340
			TOTAL CWPPRA FUNDING	70,464,525.76	5084
			TOTAL CIAP FUNDING	18,361,155.00	
	ME-25	Marsh Creation near Freshwater Bayou	TOTAL STATE SURPLUS FUNDING	3,400,000.00	96
			VERMILION PARISH GRAND TOTAL	92,225,680.76	5180

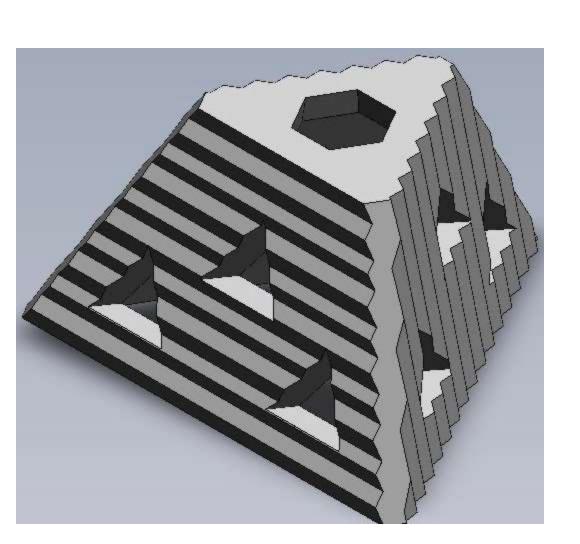
OYSTER REEF PARALLEL TO THE COASTLINE AT CHENIERE AU TIGRE

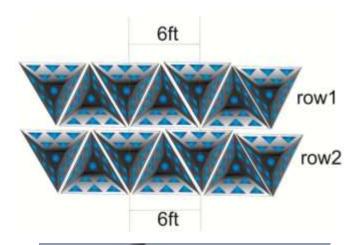
PROJECT DESCRIPTION

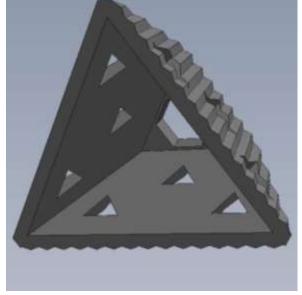
- Create a one-half (1/2)
 mile oyster reef parallel
 to the shoreline
- Estimated Cost: \$1,438,984
- Allocated CIAP Funds: \$1,438,984
- Status: Construction Complete



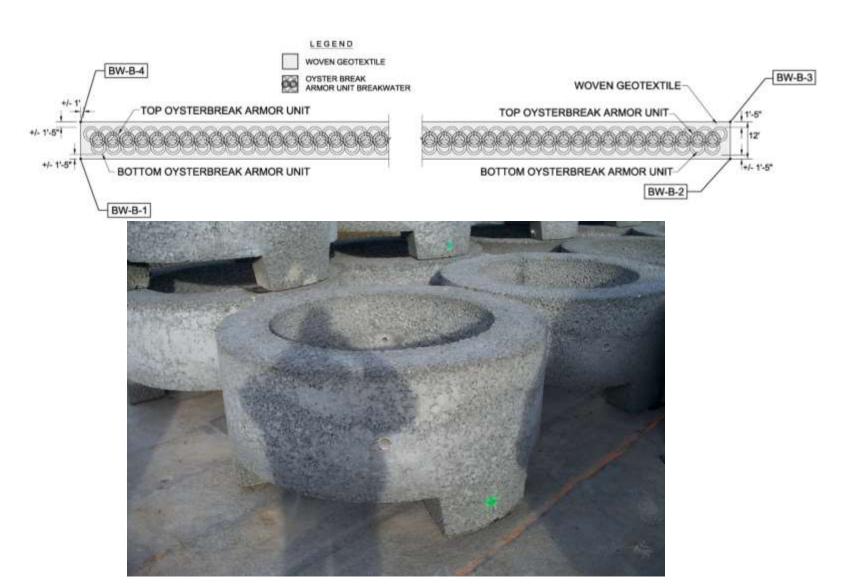
OYSTER REEF PARALLEL TO THE COASTLINE AT CHENIERE AU TIGRE







OYSTER REEF PARALLEL TO THE COASTLINE AT CHENIERE AU TIGRE











SHORELINE PROTECTION & MARSH CREATION AT TIGER POINT

PROJECT DESCRIPTION

- Create Oyster Reef
 Parallel to the Shoreline
- Allocated CIAP Funds: \$1,385,585
- Status: Construction Complete









NORTH PRONG OF SCHOONER BAYOU

PROJECT DESCRIPTION

- Levee restoration on east bank of the North Prong of Schooner Bayou and install culverts with flap gates
- Estimated Cost: \$1,650,000
- Allocated CIAP Funds: \$1,650,000
- Status: Complete



Additional Structure Repairs





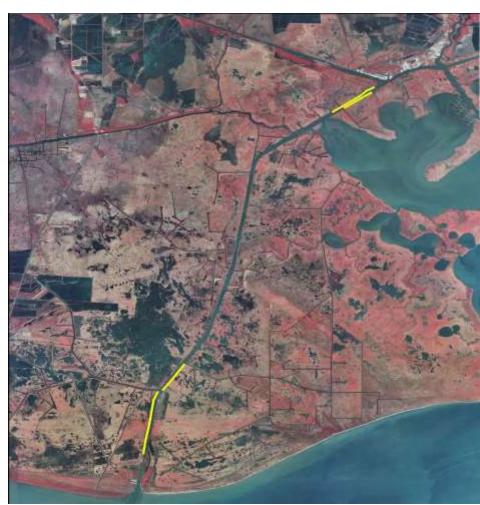




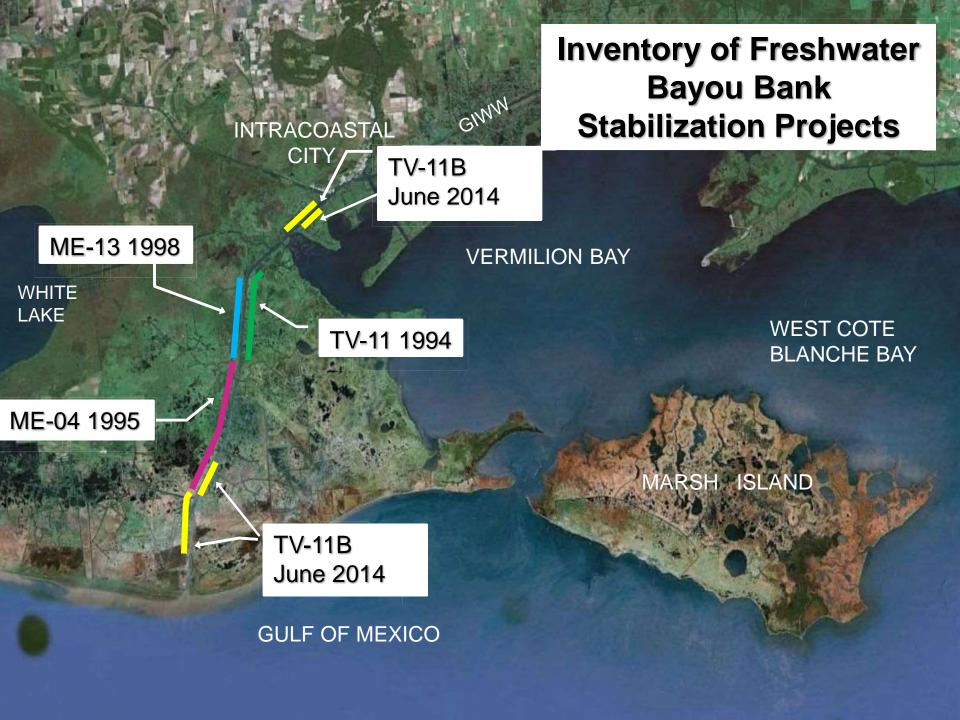
FRESHWATER BAYOU BANK STABILIZATION

PROJECT DESCRIPTION

- Approximately seven (7)
 miles of rock dike shoreline
 protection along critical
 areas of Freshwater Bayou
 navigation canal
- Allocated Parish CIAP Funds: \$1,568,804
- Allocated State CIAP Funds: \$12,000,000
- Status: Construction Complete













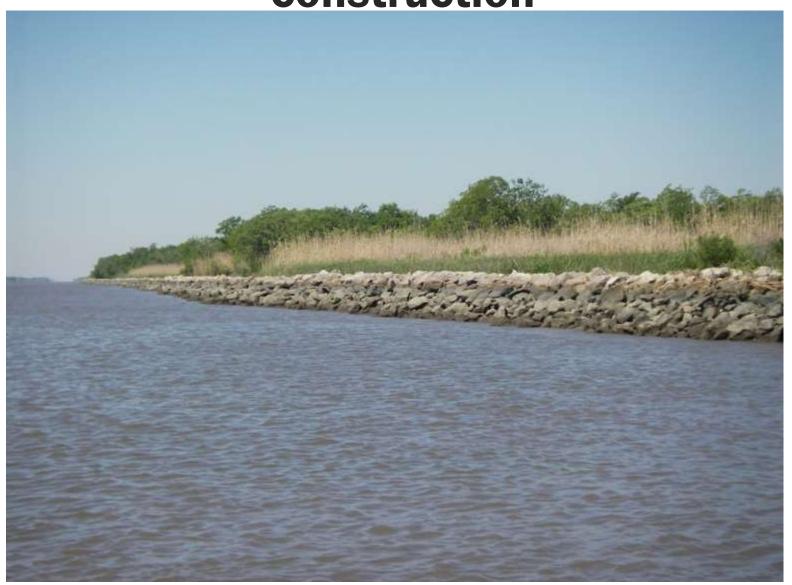
FW Bayou Bank Stabilization (ME-04 & ME-13) Maintenance Work

- Description: Replacement of displaced rock for bank stabilization on western bank of Freshwater Bayou
- Construction Cost: \$4.4 million
- Funding Source: CWPPRA
- Status: Construction began: December 2015
 - Final inspection: March 2016

Existing FW Bayou (ME-04 & ME-13) requiring maintenance work



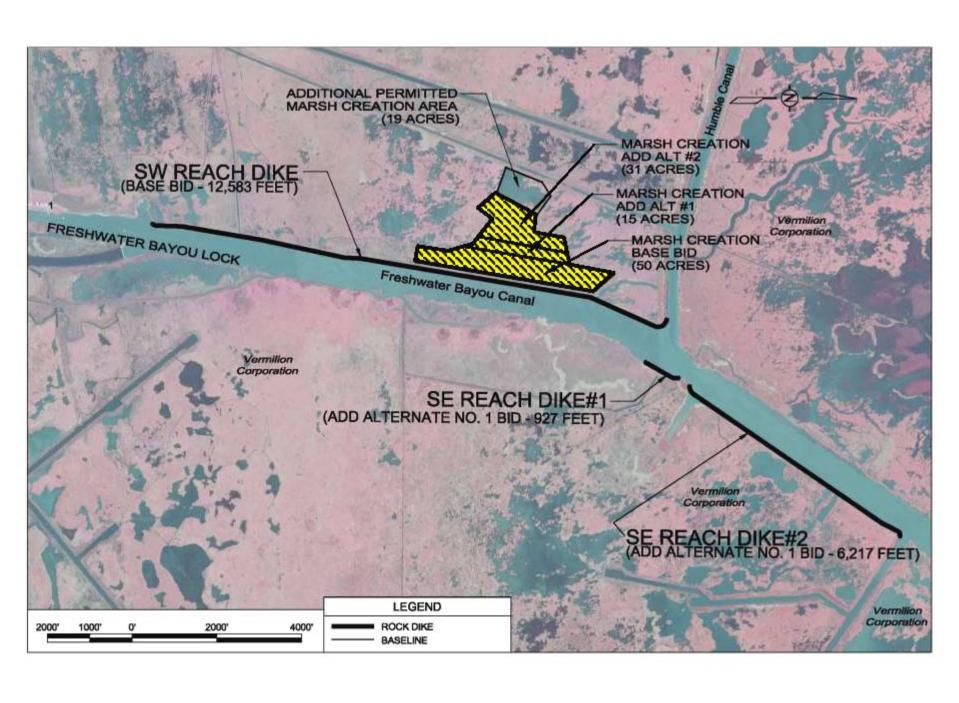
Existing FW Bayou (ME-14 & ME-13) after construction





Marsh Creation near Freshwater Bayou (ME-25)

- Total Construction Cost: \$3.4 million
- Construction: 96 acres of marsh creation
- Sediment source: Freshwater Bayou
- Funding Source: State Surplus Funds (primary source)
 plus two DNR funds (BU & in lieu fee mitigation)
- Project Status: Construction started June 18, 2014.
 Dredging complete as of May 22, 2015.





















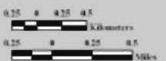


Freshwater Bayou Marsh Creation (ME-31)









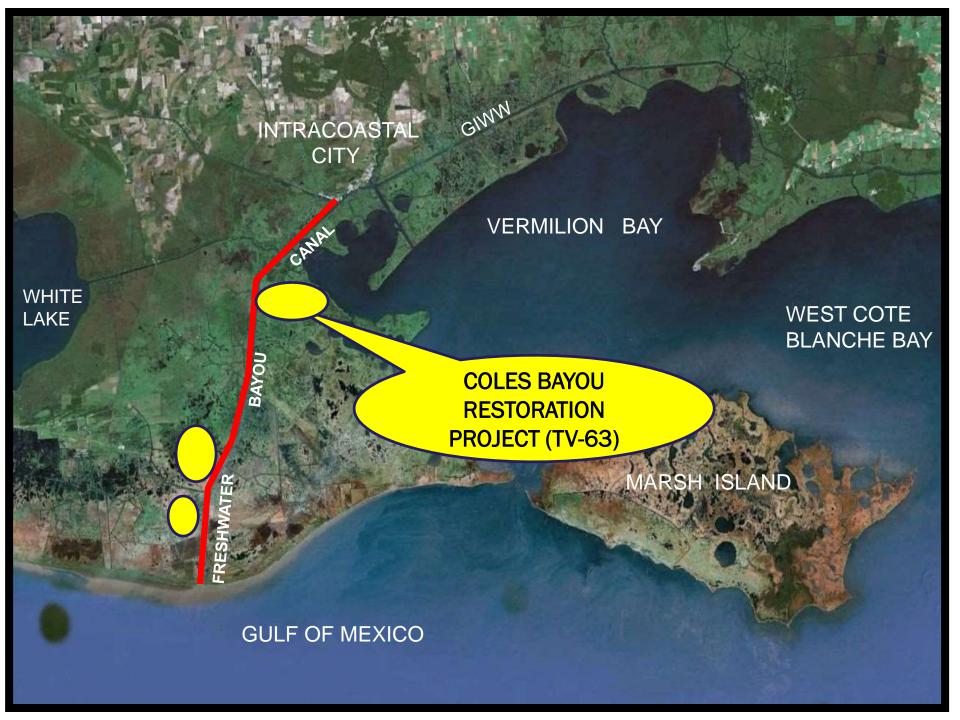
Map Produced by: U.S. Department of the Interior U.S. Geological Survey National Worksub Econock Center Countal Restriction Field Station Baton Rouge, La.

Bickground Imagery: 2008 Digital Orthophoto Quarter Quadrangle

Map Date: February 5, 2010 Map ID: UNGS-NWRC 2010-11-0020 Data accurate as of February 5, 2010

FW Bayou Marsh Creation (ME-31)

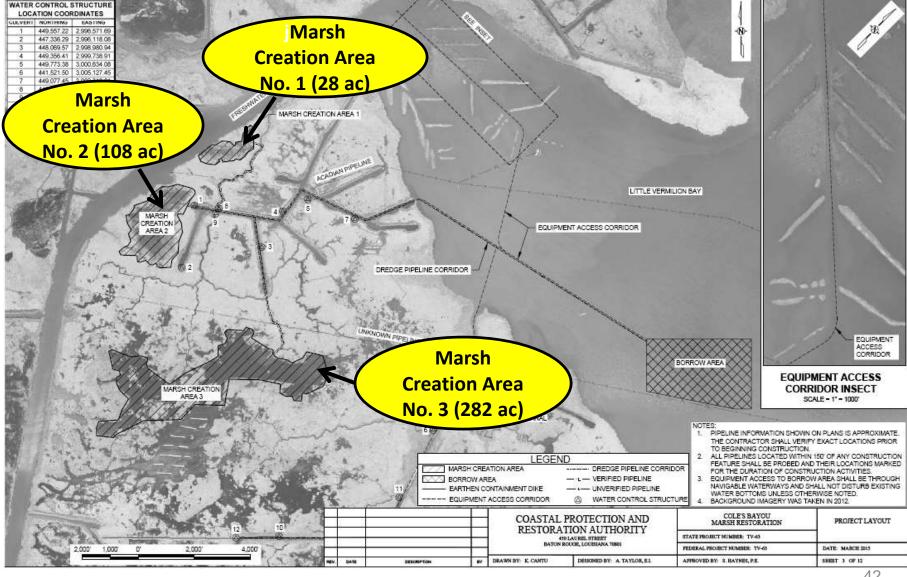
- Description: Marsh creation west of FW Bayou & north of Humble Canal. Will create 400 acres of marsh with sediment from Gulf of Mexico.
- Approved funds: \$2.4 m (Engineering & Design)
- Funding Source: CWPPRA
- Status:
 - Project team identifying pipelines in project footprint
 - ➤ Once pipeline identification is complete, final project footprint can be determined.
 - Upon determination of project limits, geotech work and draft landrights to begin.
 - >At the earliest, seeking construction funds Dec 2017



Project Information

- Funding Source: CWPPRA PPL 21
- Federal Sponsor: NMFS
- Creates/Nourishes: 418 acres
- Restores Hydrology thru project area
 - 9 water control structures locations
- Dredge Volume (cut): 1,828,080 CY
- Earthen Containment Dikes: 43,108 LF
- Maximum Pump Distance: 6.1 miles

Marsh Creation Design



Cole's Bayou Restoration (TV-63)

Status:

- Received construction funding approval at January Task Force Meeting
- ➤ Construction permit attained May 2016
- Plans and specs are being finalized
- ▶ Project will be bid in 1st quarter of 2017



LITTLE VERMILION BAY TERRACING PROJECT TV-12

- Description: The project consists of dredging 21,300 linear feet of distributary channels and create approximately 33 acres of terraces. The channels and terraces are intended to trap sediments from Freshwater Bayou to create vegetative wetlands and dissipate wave energy in this open water area and combat land loss.
- Construction Cost: \$886,029 (1997)
- Funding Source: CWPPRA
- Conclusions and Recommendations as per 2013 CPRA Inspection Report: The Little Vermilion Bay Sediment Trapping Project is in very good condition and still functioning as intended. Emergent vegetation is becoming established. Narrowing the opening into FWB and reestablishing the sacrificial terraces to the south will allow this project to continue to be successful.





Vermilion River Cutoff Bank Protection

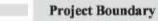
- Funding Source: CWPPRA
- Federal Sponsor: USACE
- Project Cost: \$2,047,479
- Protects: 194 acres
- Foreshore Rock Dike: 8,900 LF
- Status: Construction complete 1996



Vermilion River Cutoff Bank Protection (TV-03)



Shoreline Protection







300 Meters



Map Produced By: U.S. Department of the Interior U.S. Geological Survey National Wetlands Research Center Coastal Restoration Field Station

Background Imagery: 1998 Digital Orthophoto Quarter Quadrangle

Map Date: August 13, 2002 Map ID: 2002-11-671 Data accurate as of: August 13, 2002



Project Information

- Funding Source: CWPPRA
- Federal Sponsor: NMFS
- Project Cost: \$3,792,936
- Creates: 214 acres
- Protects: 113 acres in Vermilion Bay
- Earthen Terraces: 50,000 LF
- Status: Construction complete 2004



Four Mile Canal Terracing and Sediment Trapping (TV-18)



Terrace*



Project Boundary

* denotes proposed features





0.5 Kilometers

Map Produced By: U.S. Department of the Interior U.S. Geological Survey National Wetlands Research Center Coastal Restoration Field Station

0.5 Miles

Background Imagery: 1998 Digital Orthophoto Quarter Quadrungle

Map Date: November 13, 2002 Map ID: 2002-11-535 Data accurate as of: November 13, 2002



Project Information

Project: Boston Canal/Vermilion Bay Bank Protection (TV-09)

Construction Date: November 1995

Project Purpose: Stabilize 15 miles of the northern bank of Vermilion Bay shoreline and prevent further regression of the Boston Canal banks

Project Features:

- 1,405 LF of Rock Riprap Dikes
- 13.25 Miles of Vegetative Shoreline Plantings









Proposed Future Restoration and Protection Projects

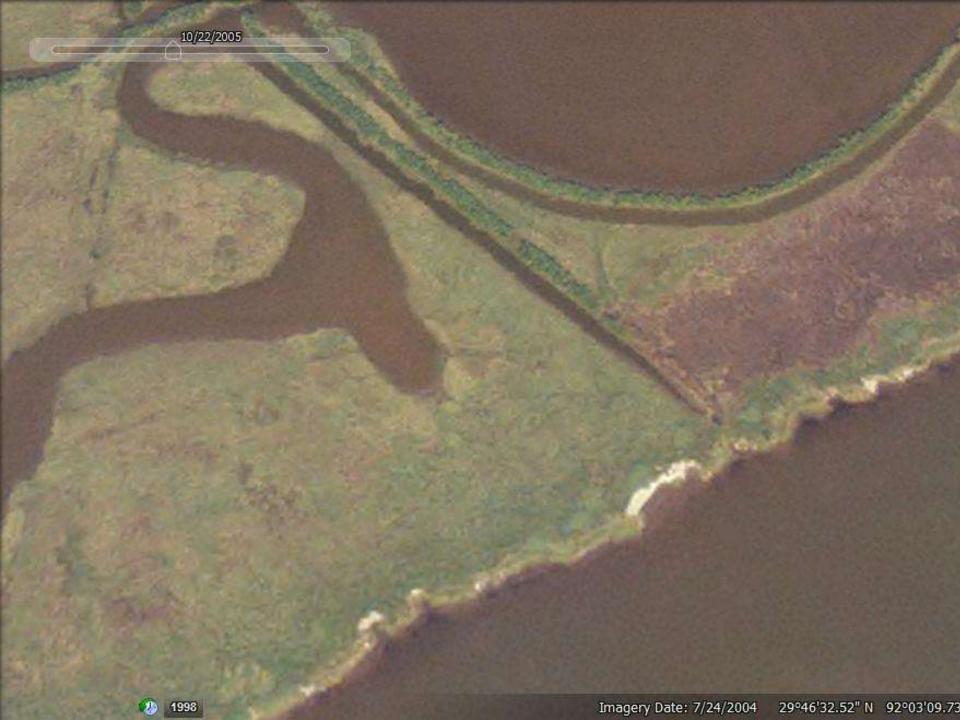
- Breaches along norther rim of Vermilion Bay
- Bayou Tigre Flood Protection Projects

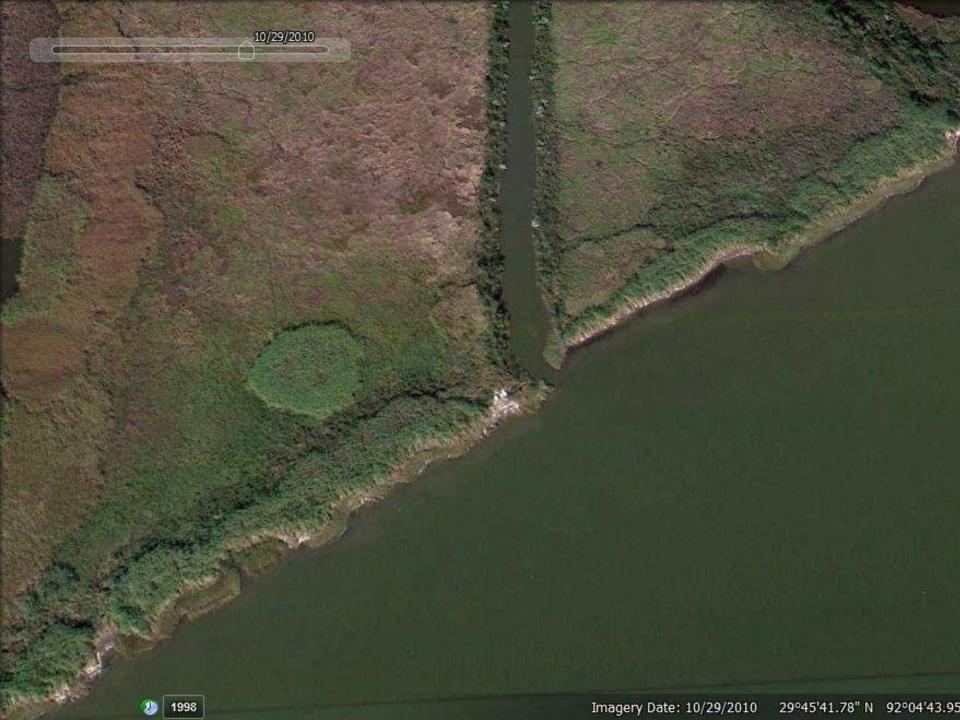


Project Information

- Breaches have occurred over the years and have formed a connection with the Vermilion Bay and the interior marshes
- The proposed project plans to plug the breaches and restore the natural hydrology
- Funding for the project will come from the RESTORE Act (BP Settlement)











Flood Protection Projects

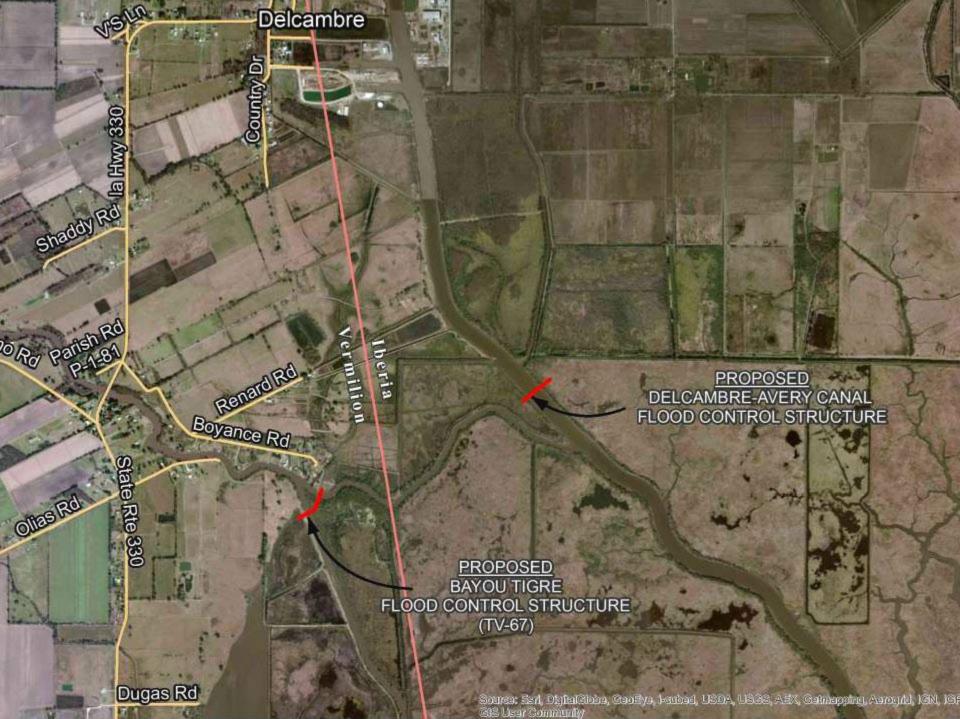
Vermilion Parish



TV-67 Bayou Tigre-Flood Control Structure TV-75 Bayou Tigre-Pump Station

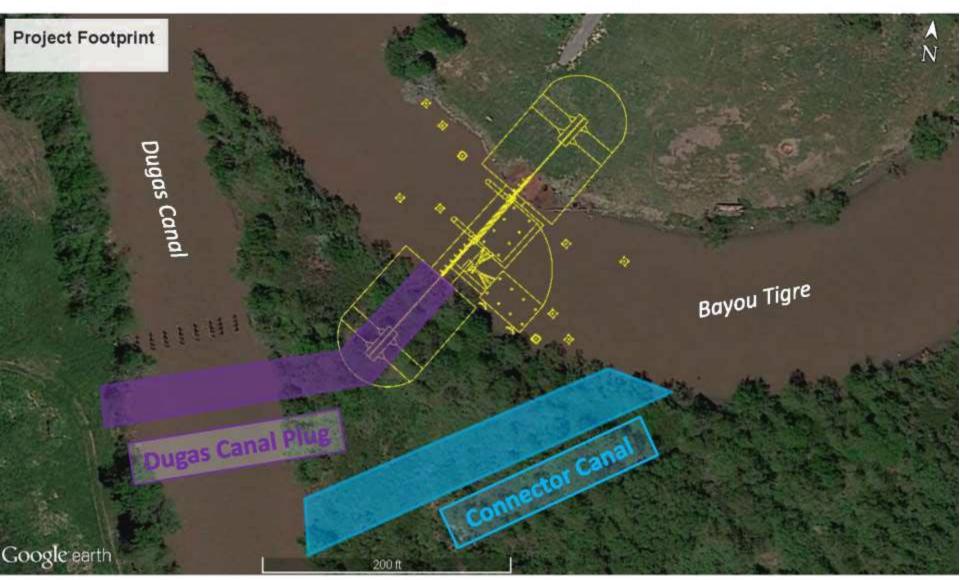


committed to our coast



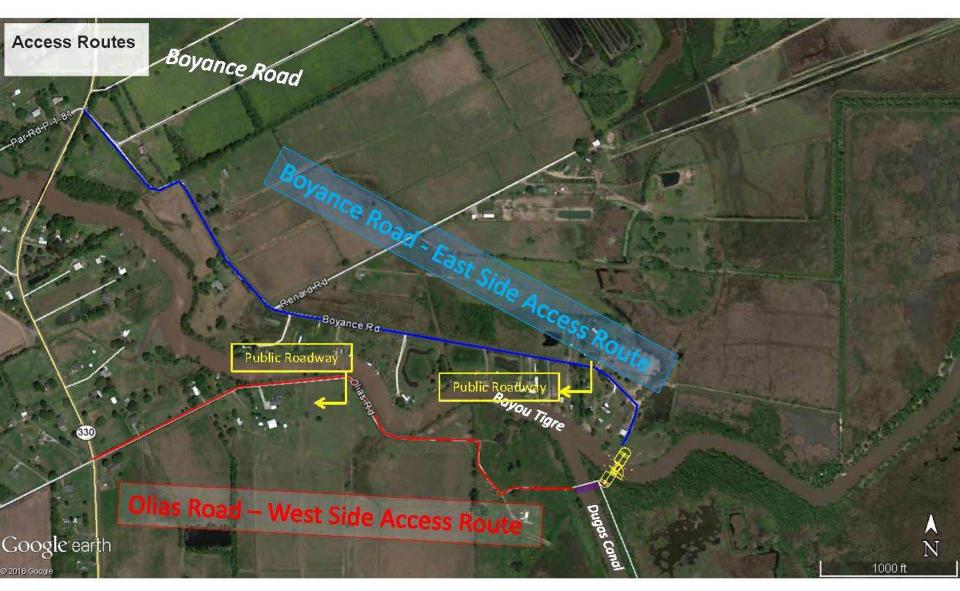


TV-67 Project Footprint



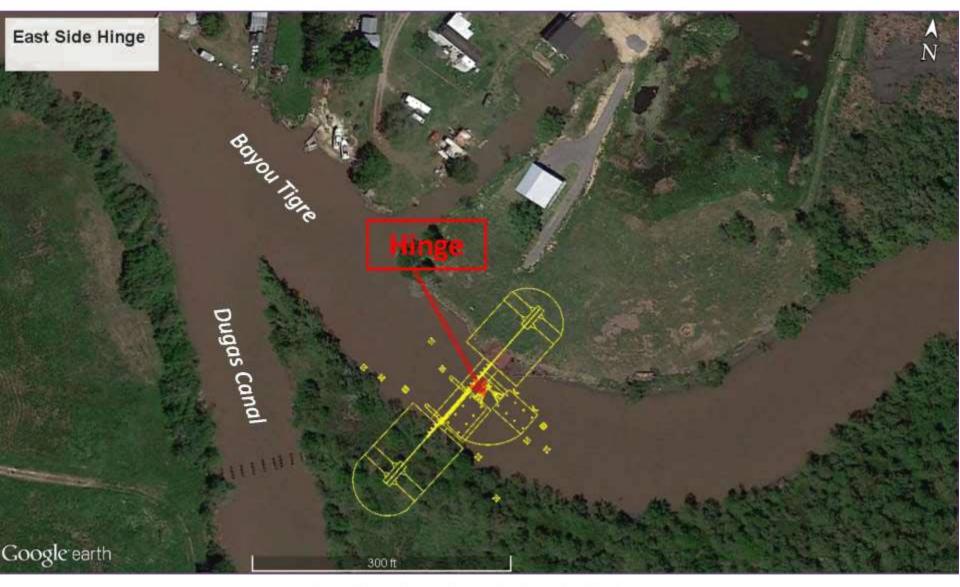
Access Route Map





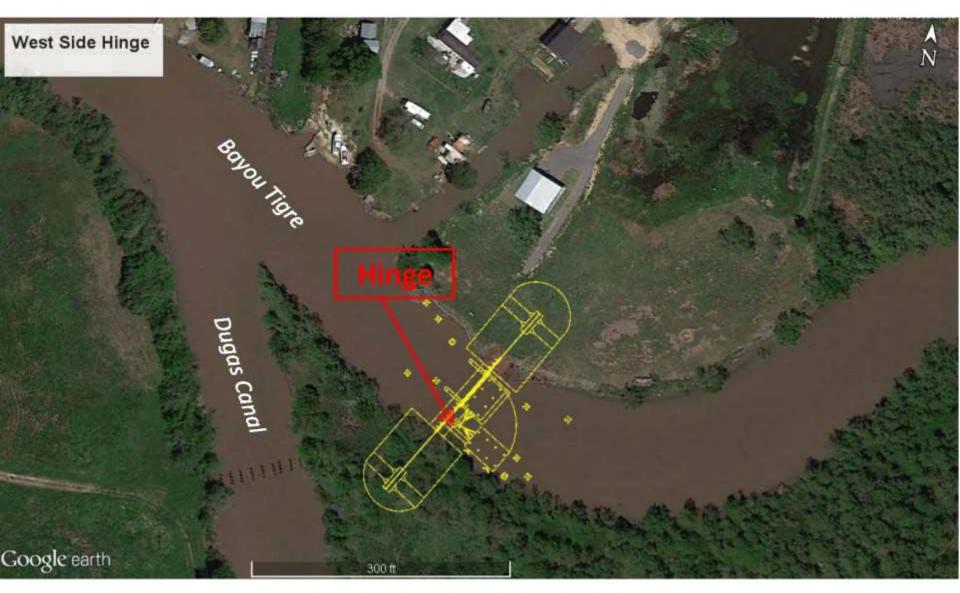
East Side Hinge Location





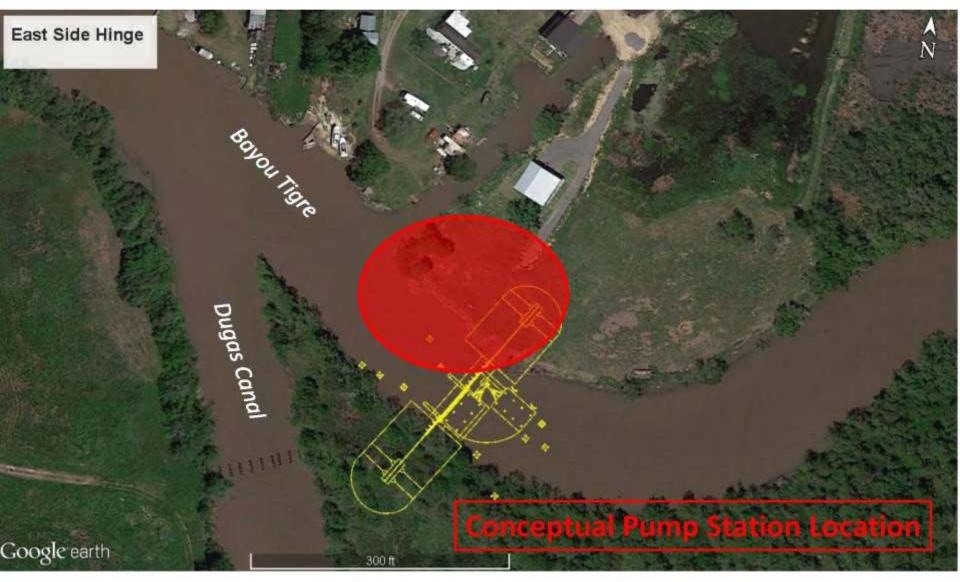
West Side Hinge Location





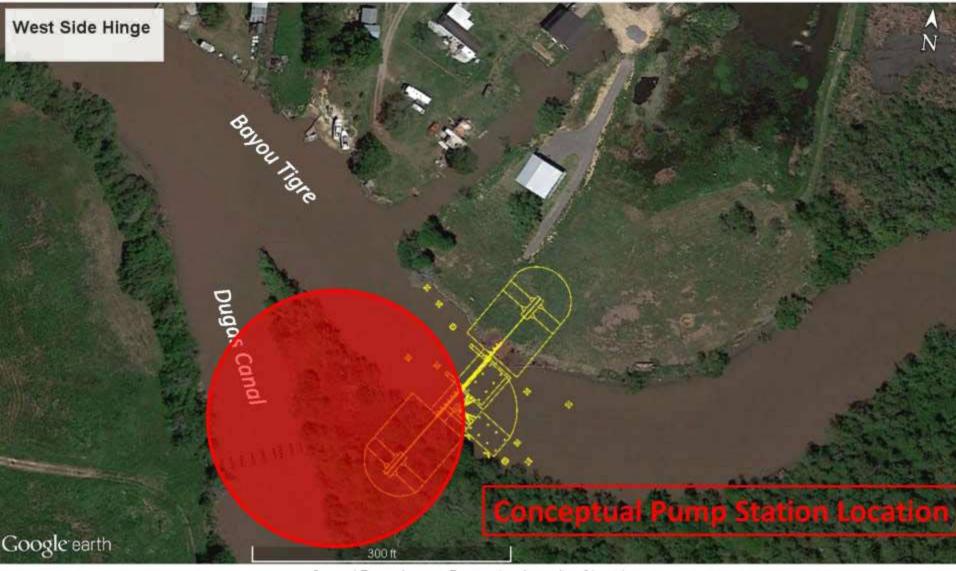
TV-75 Pump Station Location



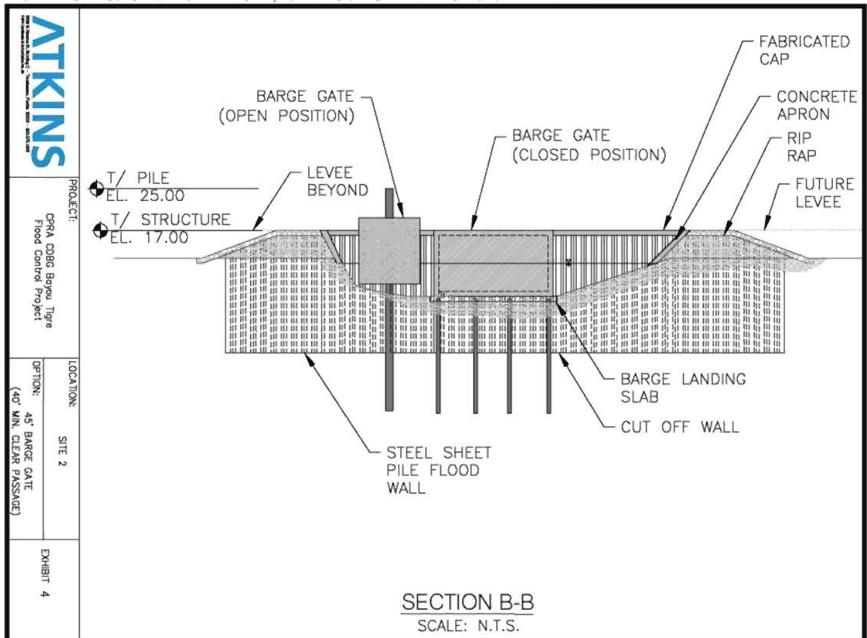


TV-75 Pump Station Location





Coastal Protection and Restoration Authority of Louisiana





Bayou Tigre Flood Control Project (TV-57)

- Proposed Construction : Barge Gate; levee work
- Funding Source: CDBG funds
- Location: SE of Erath; S of Delcambre; West of Delcambre/Avery Canal; 9 miles N of Vermilion Bay
- Project Status:
 - ➤ Design of structure and pump station on hold pending outcome of meeting with FEMA regarding level of detail of H&H study with regards to No Rise Certification.

